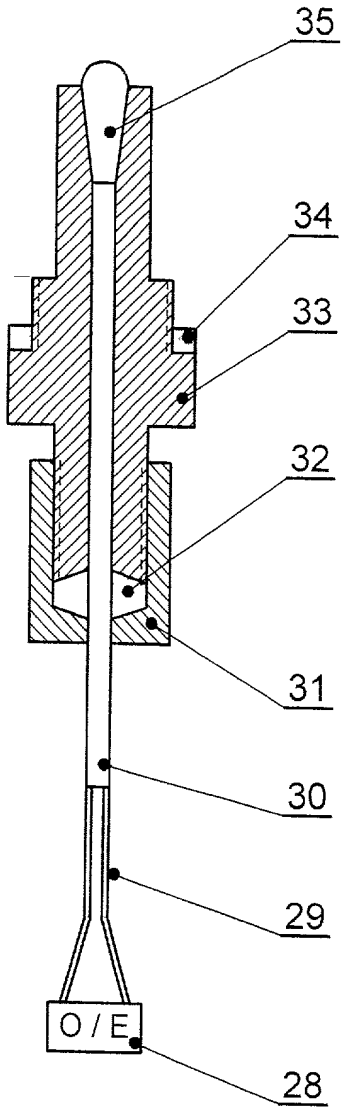

4(a)

Figure 1

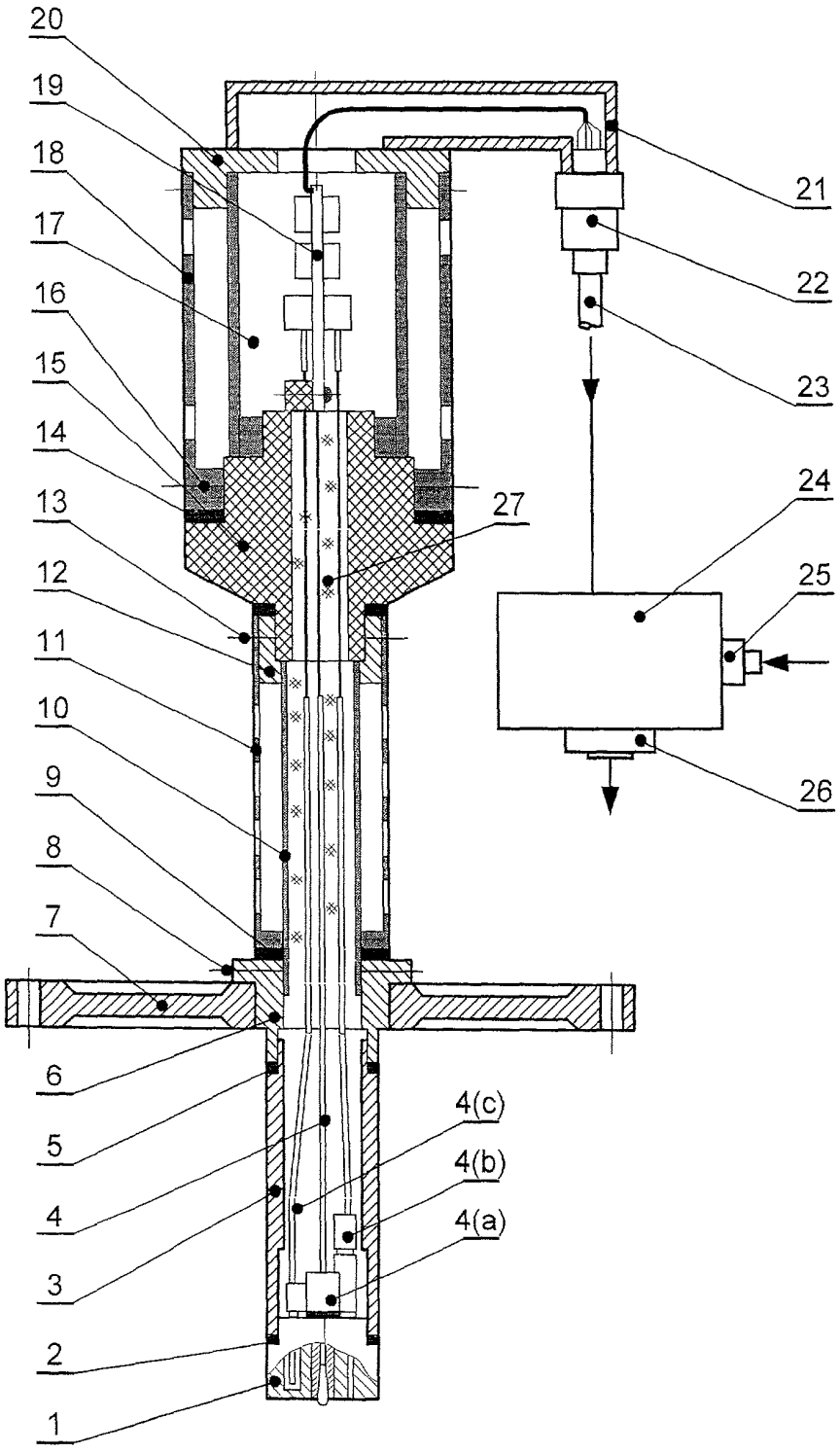
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
4(c)
4(b)
4(a)
21
22
23
24
25
26
27

Figure 2

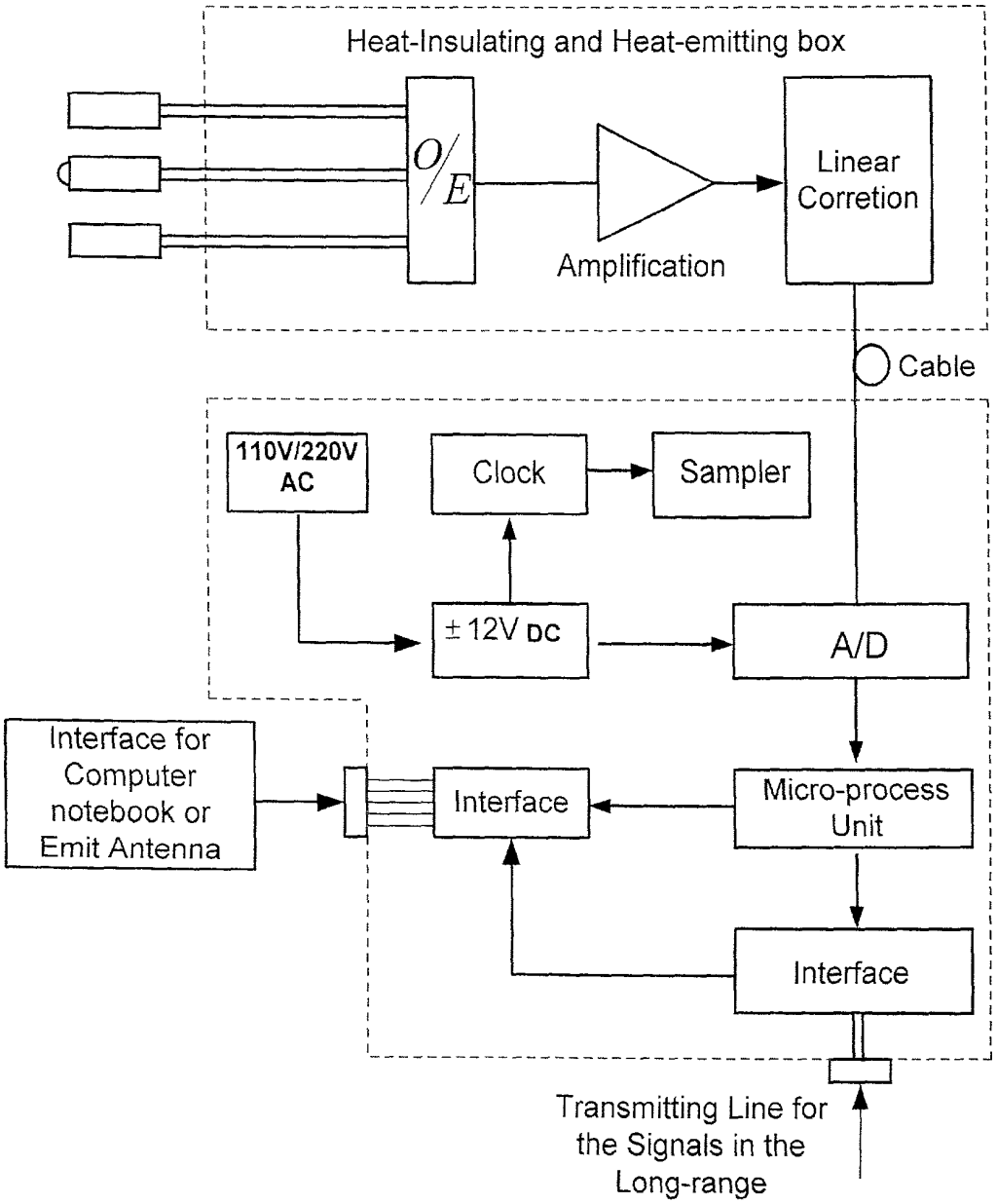
Heat-Insulating and Heat-emitting box
O/E
Amplification
Linear Corretion
Cable
110V/220V AC
Clock
Sampler
± 12V DC
A/D
Interface for Computer notebook or Emit Antenna
Interface
Micro-process Unit
Interface
Transmitting Line for the Signals in the Long-range

Figure 3

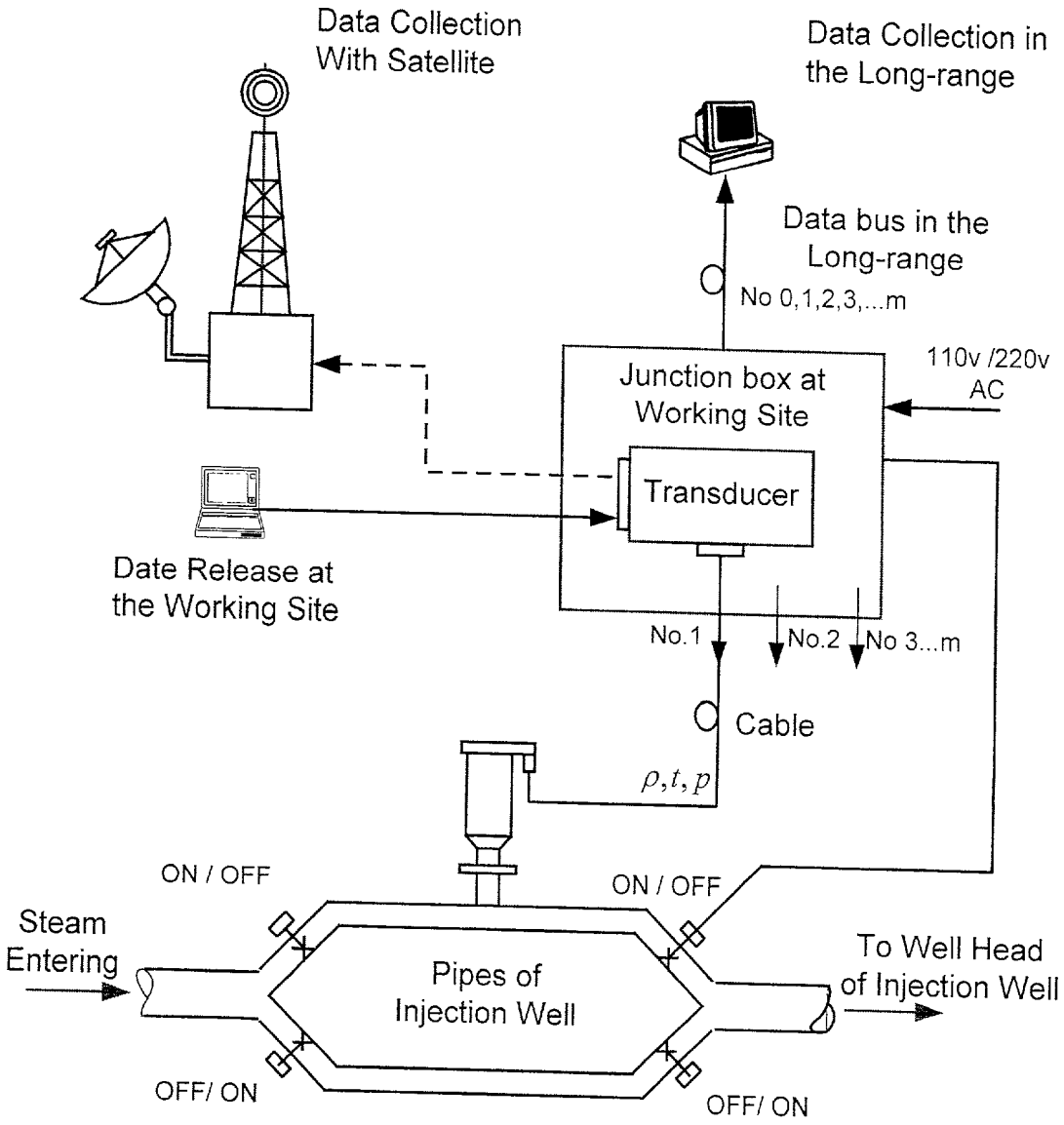
Data Collection
With Satellite
Data Collection in
the Long-range
Data bus in the
Long-range
No 0,1,2,3,...m
110v /220v
AC
Junction box at
Working Site
Transducer
Date Release at
the Working Site
No.1
No.2
No 3...m
Cable
ρ, t, p
ON / OFF
ON / OFF
Steam
Entering
Pipes of
Injection Well
To Well Head
of Injection Well
OFF/ ON
OFF/ ON

Figure 4